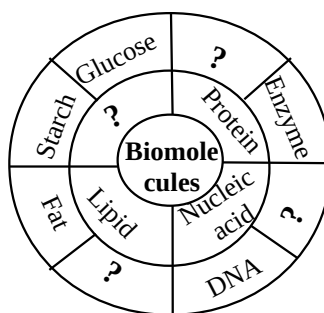


Class 9 Unit 1. To Life Processes

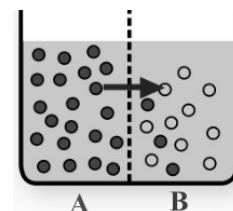
Model Questions/Worksheet by Rasheed Odakkal

- Which of the following is a fundamental component of life?
a). Tissues b). Organs c). Cells d). Organ systems
- DNA and RNA are biomolecules classified as -----.
- Check the statements related to metabolism and choose the correct answer:
i . Metabolism involves combining of molecules.
ii. Metabolism involves breaking down of molecules.
a). Only statement i is correct. b). Only statement ii is correct
c). Both statements are correct. d). Both the statements are wrong.
- Give a suitable title to the biomolecules glucose, fructose, sucrose, starch, and cellulose.
- Which of the following is **not** a type of biomolecule?
a). Carbohydrates b). Lipids c). Hormones d). ATP

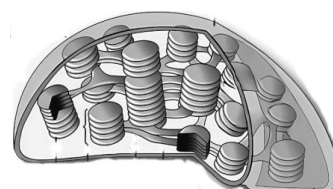
- Complete the given word sun.



- Testosterone, estrogen and progesterone.
a). What kind of biomolecules are these?
b). Where are these produced?
- In the given illustration, the fresh water in part A and the saline solution in part B are shown separated by a semi-permeable membrane.
a). If observed after one hour, what change can be seen?
And why?
b). Mention the name of this process.



- Why do cells shrink in salt water?
- Which of the following processes requires energy (ATP)?
a). Diffusion b). Osmosis c). Facilitated diffusion d). Active transport
- How does the plasma membrane regulate the transport of substances?
- By what means do substances from the external environment of plants reach their cells?
- Photosynthesis : Anabolism,
Breaking down of proteins : ----- ?
- What is the main product of the dark phase of photosynthesis?
a). Oxygen b). Water c). Glucose d.) ATP
- a). Identify the given image and name it.
b). Name the part where dissociation of water takes place?
c). Where does the dark phase of glucose formation take place?



16. Specify the reason:

- a). The light phase occurs in the grana.
- b). Due to the pollution of the ocean, there is a decrease in oxygen in the atmosphere.

17. What would happen if plants stopped photosynthesizing?

18. How is metabolism in plants different from metabolism in animals?

19. Find the appropriate word from the box for all the four statements given below:

Diffusion, Facilitated diffusion, Active transport, Osmosis

- a). Water molecules move from its higher concentration to lower across a semi-permeable membrane.
- b). Oxygen molecules move from its higher concentration to lower concentration.
- c). Molecules move from its higher concentration to lower concentration with the help of proteins.
- d). Molecules move from its lower concentration to higher concentration with the help of proteins, using energy.

20. How do plants contribute to reducing global warming?

21. What is the ecological importance of mangrove forests?

- a). They provide shelter for herbivores
- b). They increase carbon dioxide levels
- c). They prevent soil erosion and tsunamis
- d). They reduce oxygen levels in water bodies

22. Add any four topics that can be given as a sub-topics of the seminar on 'Plants- the protectors of biosphere'.